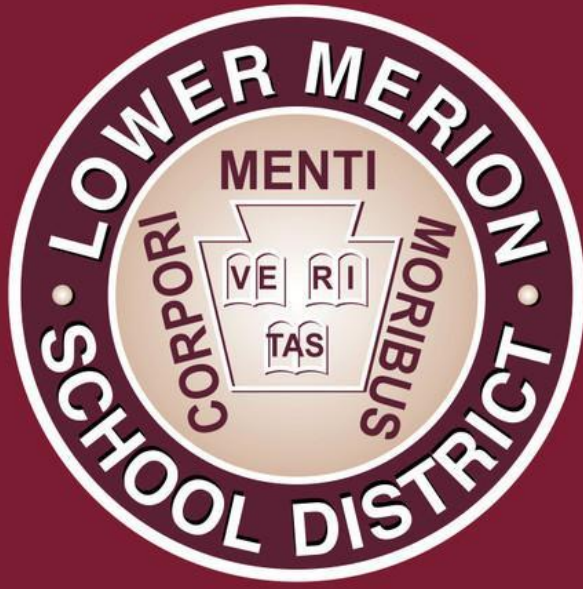


A Clean Air Success Story!

Two Decades of Natural Gas Buses at
Lower Merion School District

Fueling the Future
May 24, 2016

Lower Merion School District- A Little About Us



- Located directly west of Philadelphia on the famous "Main Line"
- 10 Schools
- Transport over 9,000 students to 136 locations daily
- Buses cover 641 school bus routes and make over 5,000 school bus stops daily
- Maintenance and repair of 168 vehicles (120 Buses, 39 District Support Vehicles)
- Kobe Bryant's alma mater



About our Program

CNG Started in 1996
Also Use Biodiesel- B10



Currently have 65 CNG
Buses and 55 Diesels



1996

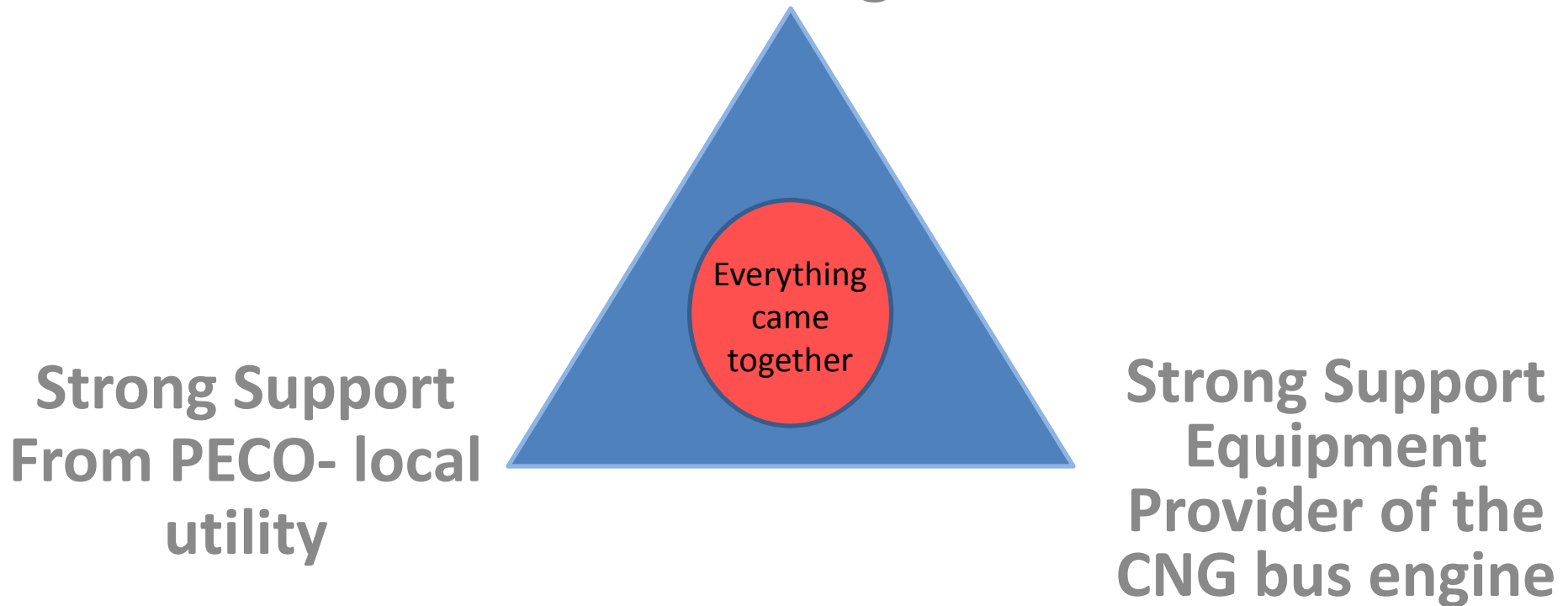
Why We Did It- Community Concerns

- Concerns in the community about bus fumes and noise
- Transportation Yard and Bus Staging Near Homes- when buses started in the morning, there was visible smog
- Initiative had opportunity with new superintendent
- Some Transportation offices were too filled with fumes to go into until later in day



Why We Did It- Fleet Regulations

Fleet Rules Looming under EPACT



Where it's Come From

Original Two Stations circa 1997

Second Generation:

Total Station Upgrades 2007-2008



- Bus garage improvements
- High level of technician training
- Assist OEM's with design feedback
- Maintain approximately 55-65 CNG buses on average year to year. Most ever was 72

Where it's Going

Important Grants and Tax Credits

- State of Pennsylvania Alternative Fuel Incentive Grants (AFIG)
- State of PA Act 13 (program finished)
- Federal Department of Energy
- Federal IRS \$0.50/gallon rebate- equaled about \$88,000 last year

Planning for the Future



What It's Accomplished

Grant Funding

- Grants assisted with bus acquisition costs- Received approx. \$309,000 in last three years towards 18 buses
- And \$745,600 since 2009

IRS Tax Rebate Money

- 2015- \$94,277
- 2014- \$88,500



What It's Accomplished 2015

Petroleum Reduction

Petroleum Reduction-

- 188,500 gge's last year from CNG, plus another 3900 dge's from our biodiesel
- 10 year throughput ex.



1,885,000

Environmental Benefits

Clean Air Benefits- 2015

- 87 tons of CO2 reduction from the CNG buses (EPA)
- 5 tons CO2 from the biodiesel
- Reduces NOX, PM 2.5

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